

Project Note

Date: June 2, 2008

Project Number: TTEMI-05-003-0019

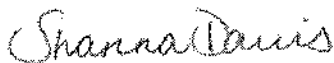
Name: Shanna Davis

Firm: Tetra Tech EM Inc.

Title: Environmental Scientist

Time: 1052

Signature:



Subject: Surface area of ponds at the Barite Hill property

PROJECT NOTE SUMMARY

To determine the surface area of the ponds, Tetra Tech used the information gathered during the 2007 Response Engineering and Analytical Contract (REAC) removal site evaluation (RSE) (Ref. 34).

In February 2007, the U.S. Environmental Protection Agency (EPA) directed REAC to conduct a RSE at the Barite Hill property and the field activities were conducted in March 2007 (Ref. 34, pp. 1, 2). The surface area of each pond was determined from aerial photographs; however, the aerial photograph date used to calculate the surface area of the ponds is not known (Ref. 34, p. 7).

Two figures are attached. The first figure shows the layout of the ponds and is contained in Reference 6, Figure 2. The second figure shows how the ponds are labeled and is contained in Reference 34, p. 23.

Process Area Ponds

Pond A (Pregnant Pond)

Surface Area - 36,700 square feet (ft²)

Pond B (Barren Pond)

Surface Area - 18,200 ft²

Pond C (Rinse Pond 1)

Surface Area - 16,600 ft²

Pond D (Rinse Pond 2)

Surface Area - 8,300 ft²

Pond E (Contingent Pond)

Surface Area - 26,000 ft²

Total Process Area Pond Area = $36,700 \text{ ft}^2 + 18,200 \text{ ft}^2 + 16,600 \text{ ft}^2 + 8,300 \text{ ft}^2 + 26,000 \text{ ft}^2$
= 105,800 ft²

PROJECT NOTE SUMMARY (Continued)

Permanent Leach Pad Solution Ponds

Pond F (Barren Pond)

Surface Area – 100,000 ft²

Pond G (Pregnant Pond)

Surface Area – 26,900 ft²

Pond H (Rinse Pond)

Surface Area – 22,200 ft²

Total Permanent Leach Pad Solution Pond Area = 100,000 ft² + 26,900 ft² + 22,200 ft²
= 149,100 ft²

RESPONSE REQUIRED

(x) None () Phone call () Memo () Letter () Report

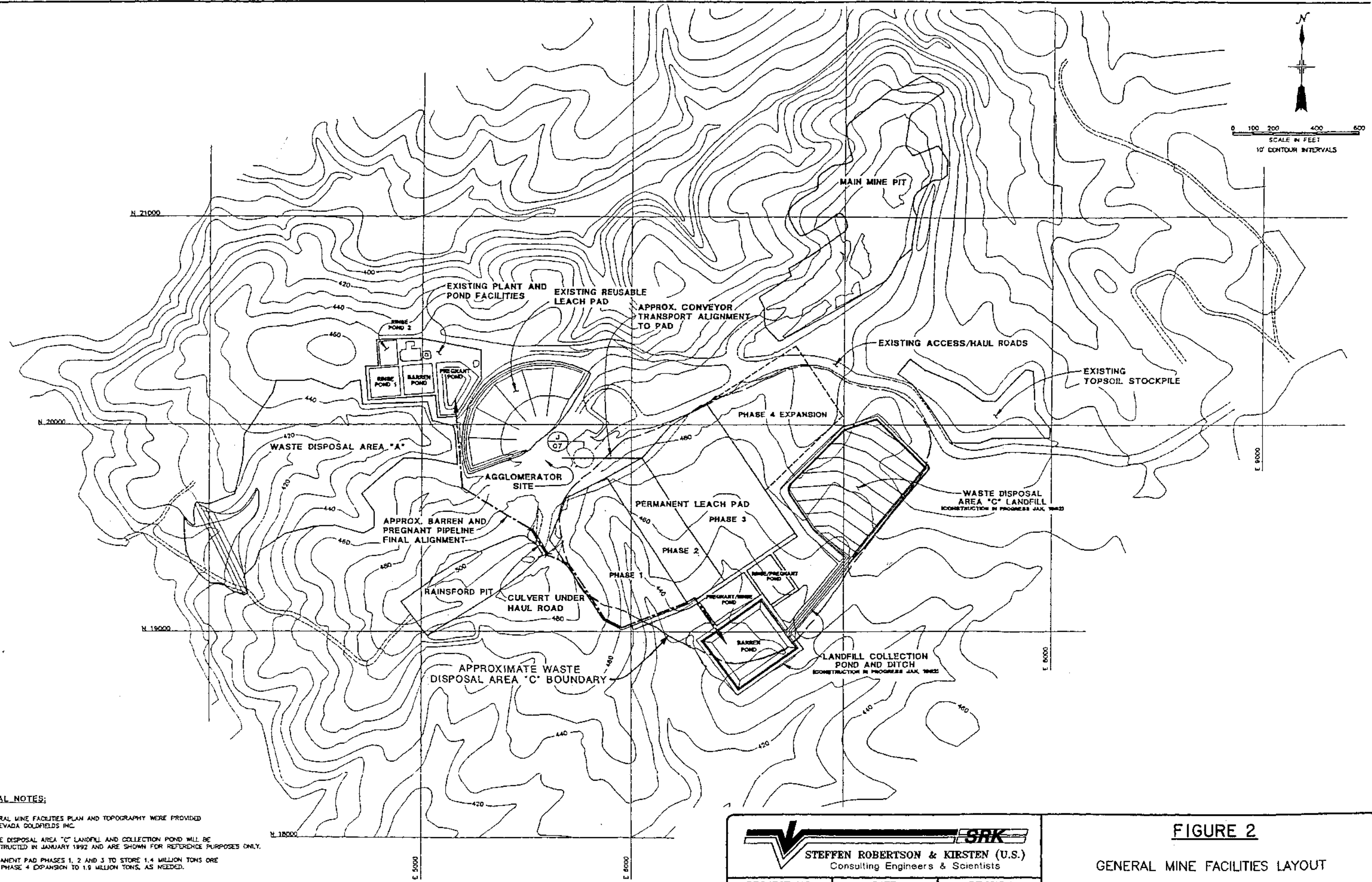
cc: File (x) Project Manager () Principal Investigator () Other (specify)


* STA. #2 * F:\BART\14115\FACLAY.DWG * APR 17, 1995 * 11:10:41 AM *

GENERAL NOTES:

- 1) GENERAL MINE FACILITIES PLAN AND TOPOGRAPHY WERE PROVIDED BY NEVADA GOLDFIELDS INC.
- 2) WASTE DISPOSAL AREA "C" LANDFILL AND COLLECTION POND WILL BE CONSTRUCTED IN JANUARY 1992 AND ARE SHOWN FOR REFERENCE PURPOSES ONLY.
- 3) PERMANENT PAD PHASES 1, 2 AND 3 TO STORE 1.4 MILLION TONS ORE WITH PHASE 4 EXPANSION TO 1.9 MILLION TONS, AS NEEDED.

REFERENCE:
AFTER DRAWING TITLED, "GENERAL MINE FACILITIES LAYOUT",
BY WESTEC, DRAWING 03110-02, DATED: 12/91.



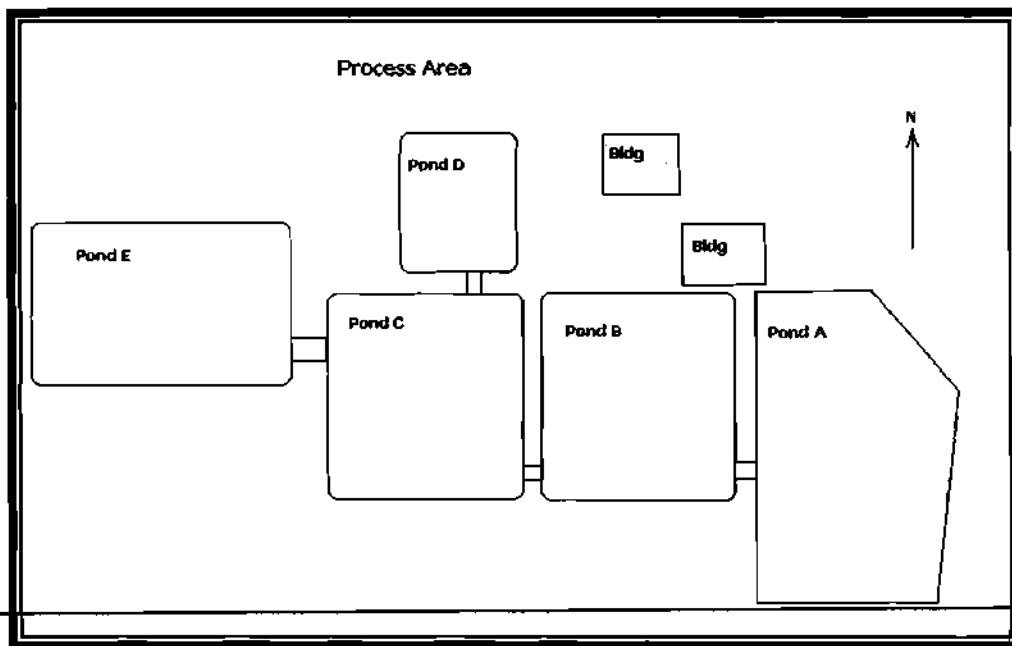
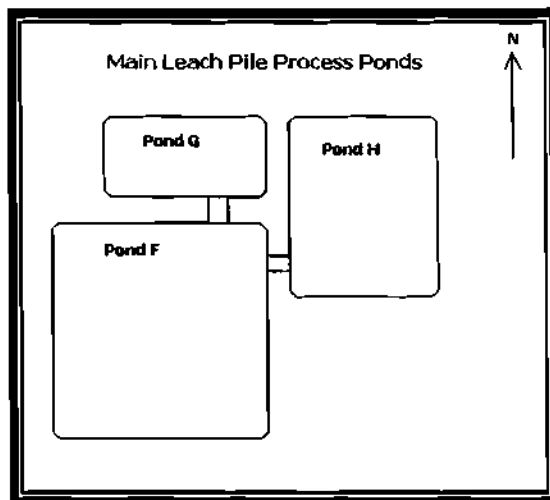
**SRK**
STEFFEN ROBERTSON & KIRSTEN (U.S.)
Consulting Engineers & Scientists

PROJECT NO. 14115	DATE 04/95	REVISION A
----------------------	---------------	---------------

FIGURE 2
GENERAL MINE FACILITIES LAYOUT

Table 17. Process Pond Labels and pH Results
Barite Hill Gold Mine
McCormick County, SC
June 2007

Pond	pH
A	9.30
B	9.10
C	9.08
D	9.20
E	8.48
F	7.20
G	8.10
H	6.85
I	7.95



Notes: Pond I was located west of the main parking area. It can be described as a shallow depression with a large quantity of downed trees that collects pooled water.

Pond locations and sizes are given for reference only. Figures are not to scale.